

## SEQUENCE LISTING

<110> Frank Michiels et al.

<120> Improved Barstar Gene

<130> 2428-0108P

<140> unknown

<141> 2001-10-05

<160> 10

<170> PatentIn Ver. 2.0

<210> 1

<211> 270

<212> DNA

<213> *Bacillus amyloliquefaciens*

<220>

<221> misc\_feature

<222> (1)..(270)

<223> CDS, function = "inhibitor of barnase", product = "barstar"

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tgtctgaccg gatgggtgga gtacccgctc gttttggat ggaggcagtt tgaacAAAGC 180  
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<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: protein

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Glu Asn Leu Asp Ala Leu Trp Asp Cys Leu Thr Gly Trp Val Glu Tyr  
35 40 45

Pro Leu Val Leu Glu Trp Arg Gln Phe Glu Gln Ser Lys Gln Leu Thr  
50 55 60

Glu Asn Gly Ala Glu Ser Val Leu Gln Val Phe Arg Glu Ala Lys Ala  
65 70 75 80

Glu Gly Cys Asp Ile Thr Ile Ile Leu Ser  
85 90

<210> 3  
<211> 273  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: other nucleic acid, "improved barstar DNA"

<220>  
<221> misc\_feature  
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<223> CDS

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gactgcctca ccggctgggt ggagtaaaaa ctcgttgg agtggaggca gttcgagcag 180  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: protein

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Gly Glu Asn Leu Asp Ala Leu Trp Asp Cys Leu Thr Gly Trp Val Glu  
35 40 45

Tyr Pro Leu Val Leu Glu Trp Arg Gln Phe Glu Gln Ser Lys Gln Leu  
50 55 60

Thr Glu Asn Gly Ala Glu Ser Val Leu Gln Val Phe Arg Glu Ala Lys  
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Ala Glu Gly Cys Asp Ile Thr Ile Ile Leu Ser  
85 90

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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: other nucleic acid, "plasmid pMV71"

<220>

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- contains an intron in the leader"

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<221> misc\_feature  
<222> (3401)..(3676)  
<223> label = barstar, "barstar DNA"

<220>  
<221> misc\_feature  
<222> (3677)..(4003)  
<223> label = 3'nos, "region containing 3' untranslated  
end of nopaline synthase gene of Agrobacterium  
T-DNA"

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<222> (3399)..(3404)  
<223> label = NcoI, "NcoI recognition site"

<220>  
<221> misc\_feature  
<222> (4016)..(4021)  
<223> label = KpnI, "KpnI recognition site"

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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: other nucleic  
 acid, "part of plasmid pLH43"

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 <223> label = NcoI, "NcoI recognition site"

<220>  
 <221> misc\_feature  
 <222> (3)..(278)  
 <223> label = synb\*, "improved barstar DNA"

<220>  
 <221> misc\_feature  
 <222> (279)..(545)  
 <223> label = 3'nos, "region containing 3' untranslated

end of nopaline synthase gene of Agrobacterium  
T-DNA"

<220>  
<221> misc\_feature  
<222> (558)..(563)  
<223> label = KpnI, "KpnI recognition site"  
  
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<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: other nucleic  
acid, "T-DNA of pTTS243"  
  
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<221> misc\_feature  
<222> Complement((1)..(25))  
<223> label = RB, "T-DNA right border"  
  
<220>  
<221> misc\_feature  
<222> Complement((98)..(331))  
<223> label = 3'g7, "region containing 3' untranslated  
end of Agrobacterium T-DNA gene 7"  
  
<220>  
<221> misc\_feature  
<222> Complement((332)..(883))  
<223> label = bar, "region coding for phosphinthsricin  
acetyl transferase"  
  
<220>  
<221> misc\_feature  
<222> Complement((884)..(2258))  
<223> label = P35S, "35S promoter of Cauliflower Mosaic  
Virus"  
  
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<221> misc\_feature  
<222> (2281)..(3969)  
<223> label = PE1, "promoter of E1 gene of rice (WO  
92/13956)"  
  
<220>  
<221> misc\_feature

<222> (3970)..(4000)  
 <223> label = synb\*; "improved barstar DNA"  
  
 <220>  
 <221> misc\_feature  
 <222> (4246)..(4577)  
 <223> label = 3'chs, "region containing 3' untranslated  
 end of chalcone synthase gene"  
  
 <220>  
 <221> misc\_feature  
 <222> Complement((5325)..(5349))  
 <223> label = LB, "T-DNA left border"  
  
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